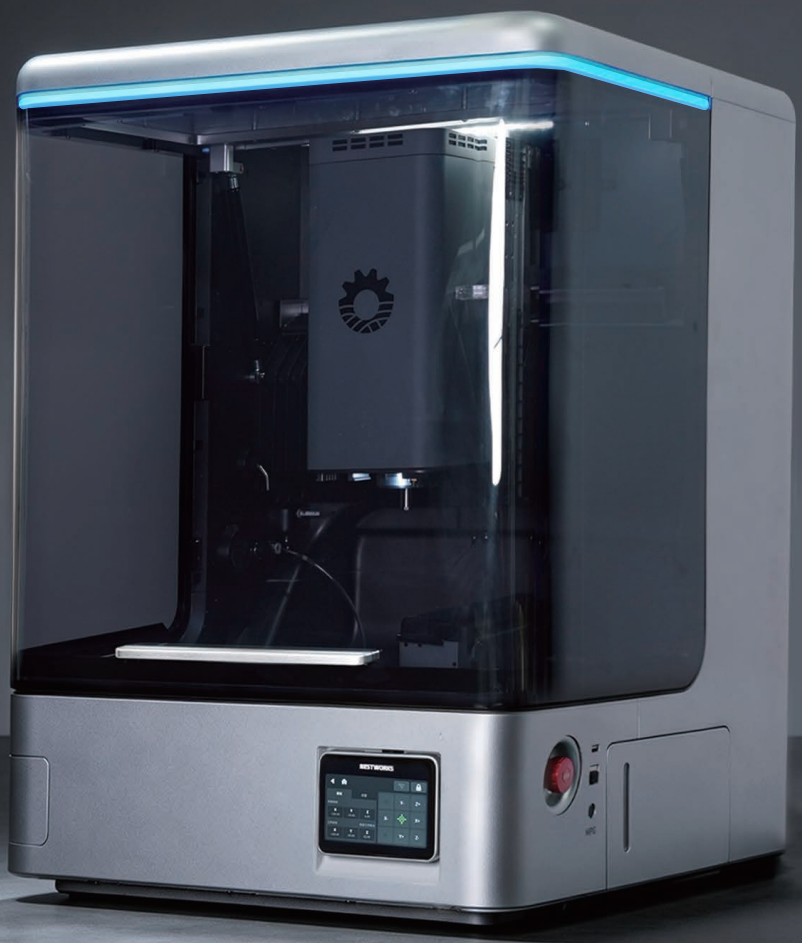
NestWorks
Corporate Brochure 2026



GREAT WORKS
BORN HERE

NESTWORKS

About Us

NestWorks Technology is a high-tech enterprise specializing in Intelligent Desktop CNC Machine, and precision manufacturing solutions. Our flagship product, the C500, has achieved unprecedented crowdfunding success, surpassing $12 million — securing its title as the world's highest-funded new tech brand crowdfunding project of 2025.

Blending industrial-grade precision, user-centric design, and industry-leading automation, our machines empower engineers, makers, and enterprises to turn creative concepts into high-quality finished products with maximum efficiency. We are committed to building a global creator community and driving innovation in the global precision manufacturing industry.

Hardware R&D: Guided by the core principles of modularity and precision, we independently develop intelligent manufacturing tools for all sizes and application scenarios. By integrating advanced structural design and precision transmission systems, our products deliver outstanding stability, adaptability, and machining accuracy — fully satisfying diverse production demands, from micro-precision fabrication to industrial-grade manufacturing.

Software R&D: With tech accessibility at our core, we leverage our proprietary intelligent control platform powered by cutting-edge digital technologies and intelligent algorithms. We break down technical barriers and steep learning curves of professional manufacturing software, streamlining complex production workflows. We enable more individuals and businesses to easily access professional manufacturing capabilities, achieving a seamless transition from creative design to finished product.

Mission & Vision

Mission: Great Works Born Here.

Vision: Build the world's most advanced productive tools, enabling anyone with an idea to turn creativity into reality easily, quickly, and with uncompromising precision.



Exhibitions & Awards

Exhibitions:

- Open Sauce 2026
- Maker Faire Bay Area 2026
- Maker Faire Tokyo 2026
- Maker Faire Rome 2026
- IFA 2026
- Formnext Frankfurt 2026

Awards & Recognitions:

- InnoForce50 Annual Smart Hardware Award
- Official Selection, Maker Faire Bay Area 2025


Kanazawa University (Japan)


UC Berkeley (USA)



Maker Faire Bay Area 2025

Timeline

- 2023: Completed core component R&D; launched in-house software development
- 2024: Prototype pilot production and performance testing completed
- Sep 2025: Global debut at Maker Faire (USA & Japan)
- Oct 2025: Official product launch on Kickstarter
- Dec 2025: Crowdfunding total exceeded $12 million; ranked No.1 globally among new tech brand crowdfunding projects of 2025

Features

01 Industrial-grade machining power in a desktop form factor capable of precision machining of hard alloys, including titanium alloy, stainless steel, and more.

02 Programming-free intelligent operation equipped with automatic tool & material recognition, and one-click toolpath generation, eliminating the steep learning curve of traditional CNC.

03 Commercial-grade manufacturing tool built for enterprise R&D teams, independent creators, and small-batch production businesses, delivering consistent professional results.

Featured Projects


Aluminum Alloy Keycap


Aluminum Alloy Robotic Arm

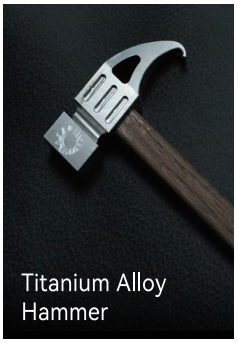

Stainless Steel Golf Club


Brass Rotating Candlestick


Brass World Cup trophy


Walnut Wood Phone Case


Brass Turkey Sculpture


Titanium Alloy Hammer

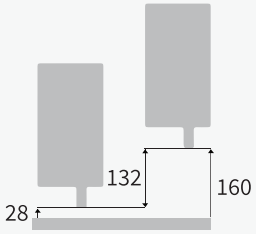

Titanium Alloy EDC Multi-Tool Keychain

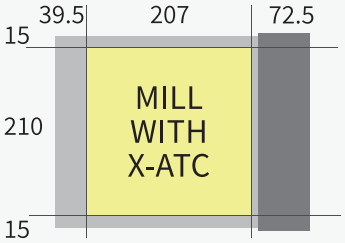

Butterfly Knife (Stainless Steel + Aluminum Alloy + Brass)

Specifications

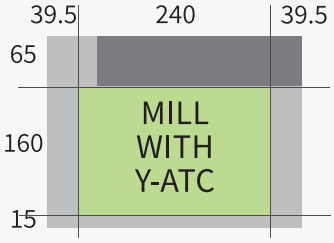
Basic Information

Overall Dimensions:	550x615x745mm (21.65x24.21x29.33 in)
Working Area – (without ATC):	240x210mm (9.45x8.27 in)
Working Area – (with X-ATC):	207x210mm (8.15x8.27 in)
Working Area – (with Y-ATC):	240x160mm (9.45x6.30 in)
Spindle Z-Axis Travel:	28–160mm (1.10–6.30 in)

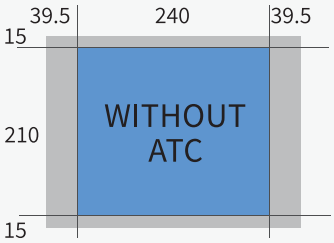




Milling Area (with X axis ATC):
207x210mm(8.15x8.27 in)



Milling Area (with Y axis ATC):
240x160mm(9.45x6.30 in)



Milling Area (without ATC):
240x210mm (9.45x8.27 in)

Power Supply:	110 -240V AC @ 50/60Hz, 1600W Output
Net Weight:	120 kg / 250 lbs (approx.)

Spindle Module

Spindle:	800W wide-voltage spindle (110–220V), 9000–18000 RPM, radial runout ≤ 0.01 mm
Spindle Cooling:	Air cooling with real-time temperature monitoring
3D Probe:	Accuracy < 0.01 mm, Feedrate: 50–200 mm/min
Probing Camera:	5MP, 110° distortion-free lens, autofocus
Laser Sensor:	Resolution 0.1 mm, linearity ±0.2% F.S., response time 400μs, frequency 2.5kHz

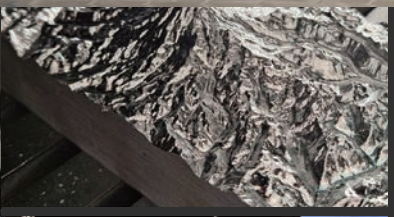
Tool Magazine (ATC)

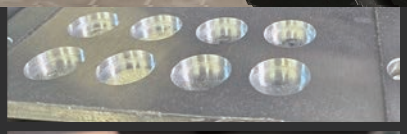
Max Tool Capacity:	5 tools (Drawbar spindle, compatible with 3mm, 6mm, 1/4" in and 1/8"in shank tools. By using adaptive collets and tool sleeves, it can accommodate more shank sizes, such as 3/16 in and 4 mm diameter tools.)
Tool Setter:	Accuracy 0.001 mm, probing speed 60–200 mm/min, sensing surface diameter Φ10 mm

Motion System

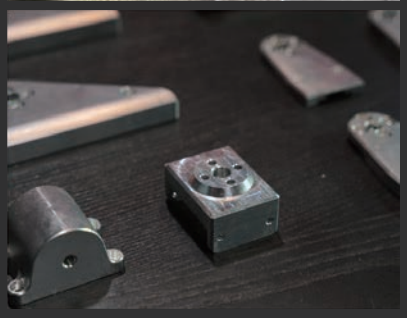
Drive System:	5mm-lead ball screw; positioning repeatability ±0.01 mm, 50N preload; dual linear rails,zero backlash, dynamic load ≥5kN
Motor:	NEMA23 closed-loop stepper motor (2.2N·m torque), 1600 subdivision, step loss rate ≤ 0.1%
Max Travel Speed:	5,000 mm/min
Supported Materials:	Wood: Hardwood, softwood, MDF, plywood, etc. Plastics: Foam, PVC, ABS, acrylic, PC, HDPE, etc. Composites: Carbon fiber, FR4, etc. Metals: Steel, aluminum, brass, copper, bronze, etc. Laser Engraving: Wood, plastic, fabric, leather, cardboard, etc.

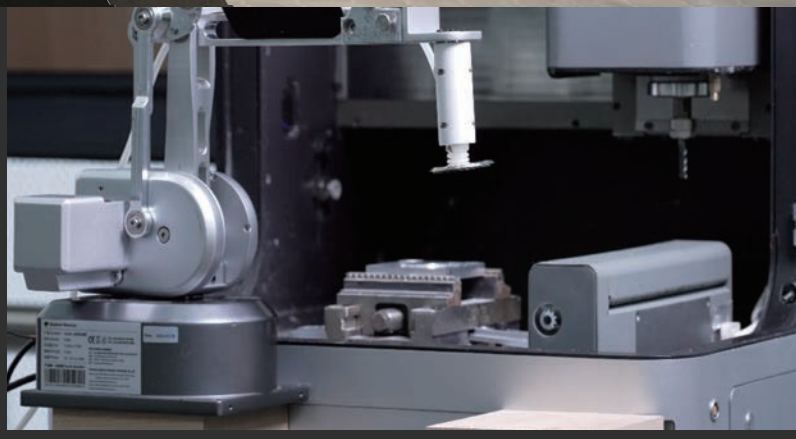




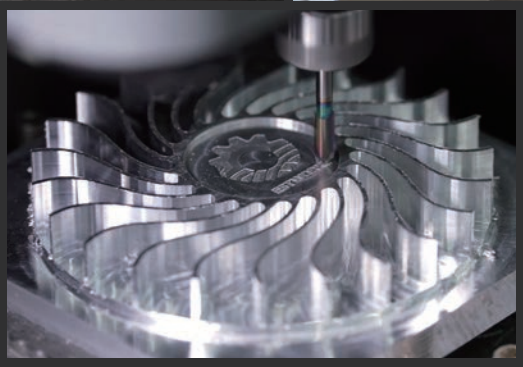


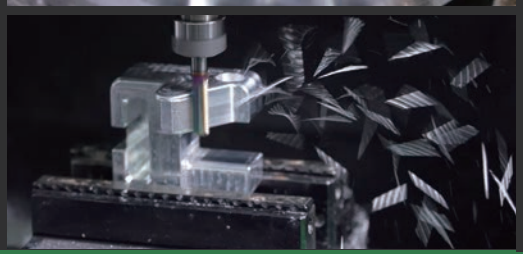




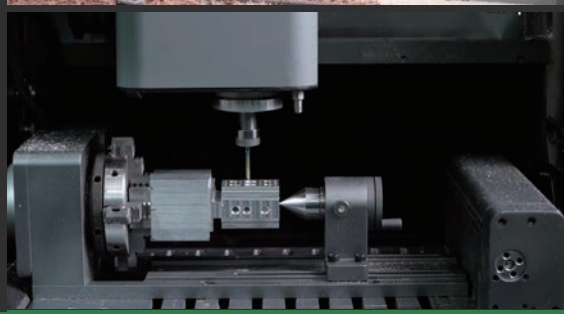












Our Team

NestWorks is incubated by Elephant Robotics — one of the world's leading educational robotic arm brands. Our core team is composed of industry professionals with academic backgrounds from top universities in the UK, US, Australia, and beyond.

We have established joint laboratories with the University of Melbourne, University of Iowa (USA), National Research Nuclear University MEPhI (Russia), Kanazawa University (Japan), South China University of Technology, and other leading academic institutions to jointly solve core technical challenges.

With over 10 years of in-depth experience in robotics and smart hardware development, our team holds profound expertise in mechanical transmission, electromechanical control, and the development and operation of highly integrated complex modules.



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Worksbase QR code

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